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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/676,084	10/02/2003	Wai Lin Siew	061255-0027	7774
	7590 01/28/2008 WIS & BOCKIUS LLP		EXAMINER	
1111 PENNSYLVANIA AVENUE NW		PADEN, CAROLYN A		
WASHINGTON, DC 20004		ART UNIT	PAPER NUMBER	
		1794	1794	
			MAIL DATE	DELIVERY MODE
			01/28/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/676,084	SIEW ET AL.			
Office Action Summary	Examiner	Art Unit			
	Carolyn A. Paden	1794			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timurilly apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONEI	I. sely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status		•			
 1) Responsive to communication(s) filed on <u>07 December</u> 2a) This action is FINAL. 2b) This 3) Since this application is in condition for allowar closed in accordance with the practice under E 	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 1-3,6-14 and 17-28 is/are pending in the shape of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-3,6-14 and 17-28 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correct and the oath or declaration is objected to by the Examine	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s)					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte			

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A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on December 7, 2007 has been entered.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3, 6-14 and 17-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lin as further evidenced by Baileys and in view of Taylor and Kellens.

Lin discloses combining palm oil with unsaturated oils such as soybean oil, corn and sunflower oils in proportions of 9:1 to 7:3. The blended oils are then cooled to 20C to 3C for crystallization and then separated by filtration. Although the fatty acid content of the unsaturated

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oil is not mentioned in Lin, these levels are well known in the art as evidenced by Bailey's to contain the linoleic, oleic and linolenic that is set forth in claim 1. Further applicant includes these oil sources as selected oils in claim 8. The claims appear to differ from Lin in the recitation of the use of heating in the crystallization process. At page 74, Taylor teaches that the slip melting point of palm oil is 63C. So it would have been obvious to heat palm oil to at least 63C prior to cooling in order to melt all of the crystals typically found in the oil. Thus with the reference before him, it would have been obvious to heat the oil of Lin to a temperature of at least 63C in order to form a uniform liquid blend oils for fractionation upon cooling. The filtration step of Lin is taken to be a low-pressure filter press in claim 2. The ratio of saturation and unsaturation in the fatty acids would have been an obvious function of the amount of each of the oils used in the starting blend. The crystallization would have been an obvious function of the cooling rate used in the process. It is appreciated that Lin and Taylor did not point to the yield of fractionated fat crystals; this yield is known in the art as disclosed in Kellens (table 4 on page 342). Finally the use of the oils in foods would have been an obvious matter of choice with regard to the particular edible oil that was available.

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It is appreciated that the exact ratio of saturated fatty acids to monounsaturated fatty acids to polyunsaturated fatty acids is not mentioned, it would have been obvious to calculate and adjust this value from the fatty acid content of the palm oil/vegetable oil blend. Lin does not provide fatty acid ratios in the fractionated oil blend. But one of ordinary skill in the art would be able to estimate the fatty acid content of the fractionated liquid oil. This estimate would be expect from the difference between the starting fatty acid content of the oils, disclosed in Taylor and Baileys, and the stearin and olein yield, disclosed by Kellens at Table 4 on page 342. The precise composition of the oil is a product limitation, carrying no weight in the method claims. With regard to the product claims, it would have been obvious to adjust the ratio of the blends of fats of Lin in order to provide for an oil blend that is optimal for advancing heart health, as recommended by the American Heart Association. The fact that the Lin blend is different from the claims is not alone seen to constitute unobviousness. A blend of palm oil and sunflower oil or corn oil (7:3) appears to have a ratio of saturated to mono-unsaturated to polyunsaturated of (1:2:1), as estimated from the fatty acid content of these

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oils. One of ordinary skill in the art would be expected to optimize the fatty acid ratios according to the particular health benefits desired.

Applicant argues that Taylor heats the palm oil to a temperature that is outside the range of the claims. This has been considered but is not persuasive. The heating conditions of Taylor would be expected to include the temperature range of the claims. Also there is no requirement in Taylor that oil be heated to 70 C and there is not suggestion that the temperature must be "at least 70C.

Applicant argues that one could not determine the composition of the oil of step d. This is disagreed with. Lin provides for the fatty acid composition of palm olein at Table 2. Taylor provides the fatty acid composition of palm oil and palm olein at Tables I and II. Baileys provides evidence for the fatty acid content of sunflower, corn and soybean oil. Kellens provides yield values for palm olein and stearin at Table 4. With these references before him, it would have been obvious to estimate the fatty acid content of the remaining oil in Lin and adjust the fatty acid content according to the fatty acid content desired. Applicant argues that the fatty acid content of palm olein is different from the fatty acid content of the claims. But palm olein is a solid fraction that is crystallized during the

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process and removed from the liquid oil fraction. It would not be expect to be present in the oil fraction of the claims.

No claim is allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Carolyn A Paden whose telephone number is (571) 272-1403. The examiner can normally be reached on Monday to Friday from 7 am to 3:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Milton Cano, can be reached by dialing 571-272-1398. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on

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access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Carolyn Paden/

Primary Examiner 1794

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